
2. DISPLAY DEVICE AND METHOD FOR DRIVING THE DISPLAY DEVICE

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PROBLEM TO BE SOLVED: To make it possible to embody a display device which is capable of displaying white as white and black as black, is high in a contrast ratio, allows high-speed switching of display and is further capable of making multicolor display (color display).

SOLUTION: The display device 1 consists of the device formed by packing microcapsules (display media) 6 having colorless and transparent dispersion media 4 and many two-color ball type particles 5 (two-color ball type electrophoresis particles) dispersed into the dispersion media 4 between a transparent substrate 2 and counter substrate 3 facing each other. The two-color ball type particles 5 are driven by applying electric fields to the microcapsules 6, by which the required display operation is carried out. The device is provided with a control means for controlling the time to apply the electric fields in such a manner that the electric fields are applied to the microcapsules 6 during the time before the two-color ball type particles 5 existing on the transparent substrate 2 side or the counter substrate 3 are inverted but are not yet completely moved to the counter substrate 3 side or the transparent substrate 2 side.

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